

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
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Be energy efficient!*

May 4, 2007

04-Ala-580,880-46.5/46.9,35.2,35.4
04-4A4104
ACSTP-43Z1(001)

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in ALAMEDA COUNTY IN OAKLAND AT THE ROUTE 580/880 SEPARATION.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on May 7, 2007.

This addendum is being issued to revise the Project Plans, the Notice to Contractors and Special Provisions, the Proposal and Contract, and to provide a copy of an additional Information Handout.

Project Plan Sheet 13, in the "QUANTITIES" table, the quantities for "FURNISH STRUCTURAL STEEL (BRIDGE)" and "ERECT STRUCTURAL STEEL (BRIDGE)" are both revised from "200 700 LB" to ""240 000 LB".

Project Plan Sheet 17, "MB-19 BENT CAP" detail is added as attached.

Project Plan Sheet 22, "GIRDER LAYOUT," detail titled "TYPICAL GIRDER," the two No Splice Zone dimensions shall be revised from "0.25L" to "0.20L".

Project Plan Sheet 22, the following note is added: "Steel I Girders and Steel Bent Caps shall be cambered for the specified girder, slab and rail deflections."

In the Notice to Contractors, the fifth paragraph is revised as follows:

"A mandatory prebid site tour and small business outreach meeting is scheduled to start at 1:00 pm on May 5, 2007. The site tour begins at Pier 7, Burma Road, Oakland, CA. Immediately after the site tour is completed the mandatory small business outreach meeting will convene at the Hilton Garden Inn in Emeryville, located near Interstate 80 and Powell Avenue: 1800 Powell Street, Emeryville. A sign up sheet will be used to identify all prospective bidders attending the prebid site tour and small business outreach meeting. The Department will not accept bids from bidders who did not attend the prebid site tour and participate in the small business outreach meeting. Contractors may submit written inquiries to the State Representative during the tour."

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In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the second paragraph is revised as follows:

"When indicated by the Standard Specifications or by these special provisions, the Contractor shall allow the Engineer 24 hours for review and approval of all submittals. The 24-hour time frame begins when the submittals are hand delivered and logged in by the Engineer for review and approval. When the specifications require working drawings to be submitted to the Offices of Structure Design Documents Unit in Sacramento, CA, said drawings shall be hand delivered to the Engineer in lieu of sending them to the Documents Units for this project."

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the fourth paragraph is revised as follows:

"A first order of work is for the Contractor to submit Painting Quality Work Plan for each item of work for which painting or paint removal is to be performed."

In the Special Provisions, Section 10-1.29, "CONCRETE STRUCTURES," subsections "GENERAL," "DECK CRACK TREATMENT," and "CONCRETE," are revised as follows:

"GENERAL

Concrete inside the column casings at Bent MB 19 will be measured and paid for as structural concrete, bridge.

Attention is directed to "Precast Concrete Quality Control" of these special provisions.

Unless otherwise specified, supplementary cementitious material will not be required in portland cement concrete used for precast concrete cap.

The Contractor will be permitted to use Type III portland cement for concrete used in the manufacture of precast concrete cap.

Shotcrete shall not be used as an alternative construction method for reinforced concrete members unless otherwise specified.

DECK CRACK TREATMENT

In addition to the limits of the new concrete deck, deck crack treatment in conformance with the provisions in Section 51-1.17A, "Deck Crack Treatment," of the Standard Specifications, shall also be applied to each adjacent existing deck span.

When methacrylate resin work is to be conducted within 100 feet of a residence, business, or public space, including sidewalks under a structure, the Contractor shall notify the public at least 7 days before starting work and monitor airborne emissions during the work. Public notification and monitoring of airborne emissions shall conform to the following:

- A. The public safety plan required in Section 51-1.17A, "Deck Crack Treatment," of the Standard Specifications shall include a copy of the notification letter and a list of addresses and locations where the letter will be delivered and posted. The letter shall state the methacrylate resin work locations, dates, times, and what to expect. The letter shall be delivered to each residence and each business within 100 feet of the methacrylate resin work. The letter shall be delivered to local fire and police responders, and it shall be posted at the job site.
- B. The public safety plan shall include an airborne emissions monitoring plan prepared by a certified industrial hygienist and a copy of the hygienist's certification. Airborne emissions shall be monitored at a minimum of 4 points including the point of mixing, the point of application, and the point of nearest public contact, as determined by the Engineer. At the completion of methacrylate resin work, a report by the certified industrial hygienist with results of the airborne emissions monitoring plan shall be submitted to the Engineer.

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CONCRETE

Concrete shall contain not less than 675 pounds of cementitious material per cubic yard.

Concrete for deck construction is designated by compressive strength and shall have a minimum 96-hour compressive strength of 3,600 psi prior to directly supporting construction loads.

The provisions for 28-day compressive strength concrete in Section 90-9, "Compressive Strength," of the Standard Specifications shall apply to the 96-hour compressive strength specified herein for deck construction.

Concrete deck surfaces shall first be cured using the water method in conformance with the provisions of Section 90-7.01A, "Water Method," of the Standard Specifications, except that the curing period shall be a minimum of 96 hours. Immediately after the completion of the water curing and while the surface is damp but has no free water standing on it, pigmented curing compound shall be applied in conformance with the provisions in Section 90-7.01B, "Curing Compound Method," of the Standard Specifications. The curing compound shall be curing compound (1)."

In the Special Provisions, Section 10-1.29, "CONCRETE STRUCTURES," subsection "PRECAST CONCRETE BENT CAPS," the following paragraphs are added:

"The details shown on the plans for the precast prestressed bent cap are based on pre-tensioning the bent cap. At the option of the Contractor, details for post-tensioning or a combination of pre-tensioning and post-tensioning system, may be submitted, subject to the approval of the Engineer and in conformance with the following requirements:

- A. The proposed system and details shall provide moment and shear resistances at least equal to those used for the design of the structure shown on the plans.
- B. The concrete strength shall not be less than that shown on the plans.
- C. Temporary prestressing tendons, if used, shall be detensioned, and the temporary ducts shall be filled with grout before completion of the work. Temporary tendons shall be either removed or fully encased in grout before completion of the work.
- D. All details of the proposed system, including supporting checked calculations, shall be included in the drawings submitted in conformance with the provisions in Section 50-1.02, "Drawings," of the Standard Specifications.

Moments and shears for loads used in the design shown on the plans will be made available to the Contractor upon written request to the Engineer."

In the Special Provisions, Section 10-1.40, "BARRIER RAILING," the fourth paragraph is revised as follows:

The contract price paid per linear foot for barrier railing Type 2 shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and placing the reinforced concrete parapet and metal railing and posts, complete in place, including new rail post anchor bolts, associated hardware and galvanized steel shims, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer."

In the Proposal and Contract, the Engineer's Estimate Items 24 and 25 are revised as attached.

Addendum No. 1
Page 4
May 4, 2007

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To Proposal and Contract book holders:

Replace page 4 of the Engineer's Estimate in the Proposal with the attached revised page 4 of the Engineer's Estimate. The revised Engineer's Estimate is to be used in the bid.

Attached is a copy of an additional Information Handout which includes "Test Results for Beam Located at CCM Yard in Benicia," and "Existing Beam Survey for Contract 04-4A4101 as of 5-4-2007."

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the NOTICE TO CONTRACTORS section of the Notice to Contractors and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This office is sending this addendum by confirmed facsimile to Proposal and Contract book holders to ensure that each receives it. A copy of this addendum and the modified wage rates are available for the contractor's use on the Internet Site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-4A4104/

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



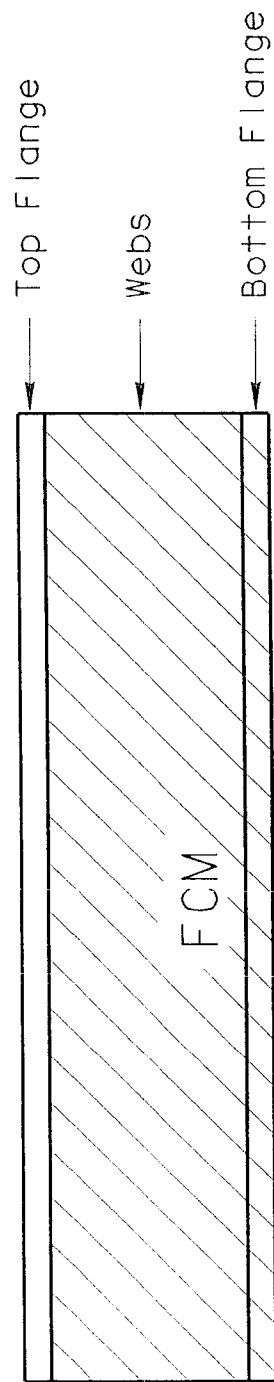
REBECCA D. HARNAGEL, Chief
Office of Plans, Specifications & Estimates
Division of Engineering Services - Office Engineer

Attachments

**ENGINEER'S ESTIMATE
04-4A4104**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21 (S)	519088	JOINT SEAL (MR 1")	LF	84		
22 (S-F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	49 000		
23 (S-F)	550110	COLUMN CASING	LB	3300		
24 (S-F)	550203	FURNISH STRUCTURAL STEEL (BRIDGE)	LB	240 000		
25 (S-F)	550204	ERECT STRUCTURAL STEEL (BRIDGE)	LB	240 000		
26 (S)	590106	CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	SQFT	6800		
27 (S)	590115	CLEAN AND PAINT STRUCTURAL STEEL	LS	LUMP SUM	LUMP SUM	
28 (S)	041045	CLEAN AND PAINT STRUCTURAL STEEL (EXISTING STEEL GIRDERS AND STEEL BENT CAPS)	SQFT	5500		
29 (S)	041046	SPOT BLAST CLEAN AND PAINT UNDERCOAT (EXISTING STEEL GIRDERS AND STEEL BENT CAPS)	SQFT	5500		
30 (S)	041047	SPOT BLAST CLEAN AND PAINT UNDERCOAT (EXISTING COLUMN CASING)	SQFT	2370		
31 (S-F)	750501	MISCELLANEOUS METAL (BRIDGE)	LB	1300		
32 (F)	839401	CONCRETE BARRIER	LF	320		
33 (S)	840504	4" THERMOPLASTIC TRAFFIC STRIPE	LF	800		
34 (S)	850101	PAVEMENT MARKER (NON-REFLECTIVE)	EA	70		
35 (S)	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	30		
36 (S)	861504	MODIFY LIGHTING AND SIGN ILLUMINATION	LS	LUMP SUM	LUMP SUM	
37	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

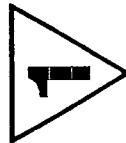
TOTAL BID: _____



MB-19 Bent Cap - No Scale

FCM = Fracture Critical Member.

All welds to FCM's are subject to Fracture Critical Plan.



FOR CONTRACT NO.: 04-4A4104

INFORMATION HANDOUT

TEST RESULTS FOR BEAM LOCATED AT CCM YARD IN BENICIA

EXISTING BEAM SURVEY FOR CONTRACT 04-4A4101 AS OF 5-4-2007

ROUTE: 04-Ala-580-46.5/46.9

PROVIDED PER ADDENDUM NO. 1 DATED MAY 4, 2007

May 4, 2007

PROJECT INFORMATION

04-4A1004

Reconstruct Bridge – Distribution Structure

Bridge Number 33-0061L

SUBJECT

Test Results for Beam Located at CCM Yard in Benicia

DISCUSSION

Specimens were removed from a two foot section of one of the beams shown in Attachment A per ASTM A709 Specification to determine tensile, charpy and steel chemistry. Two tensile 0.500 round specimens were machined from the flange, charpy test specimens were prepared from the flange and from the center of the K-line. These last charpy specimens are not a requirement of the ASTM A709 specification.

Tests reports are presented in Attachment B. In summary, the material meets ASTM A709 grade 36 specifications. The average tensile properties are: yield strength = 46063 ksi, tensile strength = 69125 ksi, and % elongation = 36.6%. The charpy test from the flange average 100.66 ft-lb and the K-line average 34.33 ksi. The chemical analysis meets both the grade 36 and 50 specifications.

CONCLUSION

Material meets ASTM A709 grade 36 specifications.

Rosme Aguilar, Chief
Structural Materials Testing Lab



Attachment A

Steel Beams Located at CCM's Yard in Benicia, CA

Copy is available at http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-4A4104/

Attachment B

Test Results of CCM Steel Beam

Copy is available at http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-4A4104/

EXISTING BEAM SURVEY FOR CONTRACT 04-4A4101 AS OF 5-4-2007

Company	Company Contact and Phone Number	Date Contacted	Product Description	Statement	Determination	Location
Caltrans Owned Girders		5/2/2007	Used Steel Girders		Inadequate Cross Section	San Jose, CA
CC Meyers		5/2/2007	Used Steel Girders	Girders with depth 44", length 71'-3", TF 1 3/4", BF 1 7/8", W 1"	Check samples tested by TRANSLAB meet GRADE 36	Benecia, CA
Precision Crane	John Elliff (707) 546-6900	5/3/2007	Used Steel Girders	7' depth, 12 each girders, 120' long. Previously used or left overs from the Old Russian River Project.	Too large	Healdsburg, CA
Triad Metals	Howie 800 355 1140	5/4/2007	Steel Plates	Supplier is developing list of steel that meets project requirements.	No Girders, only plate.	Pittsburg, Pennsylvania
Tross Jacking & Drayage	Jana and Matt Tross (510) 715-4201	5/3/2007	Used Steel Girders	32 3/4" depth, 5 ea at 87', 3 ea at 60' girders. TF 1 1/8", BF 1 3/4". Previously used for 680/24 Temporary Flyover. All have 6" sweep.	Too small	
Unknown	Pete Binkley 707 545 4837	5/4/2007	Used Steel Girders	Originally reported 15 each 50' long 10' wide panels from GG Bridge redecking project 20 years ago. Each pane is supported by two 24" I-beams underneath.	Called left message.	